

PC1/EP2005/002601

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04R1/22 H04F H04R1/28 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO4R HO4M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X GB 2 347 302 A (NIPPON ELECTRIC CO) 1-7 30 August 2000 (2000-08-30) abstract page 5, line 5 - line 24 page 8, line 9 - line 24; figures 1,2,5,6 US 6 064 894 A (ZUREK ROBERT A ET AL) X 1,2 16 May 2000 (2000-05-16) Α abstract column 1, line 66 - column 2, line 60 column 3, line 11 - line 48 column 4, line 7 - line 26; figures 1,2,6 US 6 104 808 A (ALAMEH RACHID M ET AL) Α 1-3 15 August 2000 (2000-08-15) cited in the application abstract; figures 2-4 Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international ٠E. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an Inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 31 May 2005 06/06/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fülöp, I

Fax: (+31-70) 340-3016



PCT/EP2005/002601

C (Continue	ition) DOCUMENTS CONSIDERED TO BE RELEVANT	1 017 11 20037 002001		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Α	US 6 473 625 B1 (MERCER JOHN ET AL) 29 October 2002 (2002-10-29) abstract column 3, line 54 - line 65	6		
Α	US 4 228 379 A (GUSCOTT JOHN K ET AL) 14 October 1980 (1980-10-14) column 3, line 44 - line 48	7		
:				
		ł		
		ł		
		ļ		
:				
:				
	•			
٠	·			
		_		

INTERNATIONAL SEARCH REPORT

Information on patent family members

In Application No PCT/EP2005/002601

Patent document cited in search report		Publication date	, activitating		Publication date	
GB 2347302	A	30-08-2000	JP JP CN US	3266132 B2 2000244618 A 1264995 A ,C 6678504 B1	18-03-2002 08-09-2000 30-08-2000 13-01-2004	
US 6064894	Α	16-05-2000	GB	2337395 A ,B	17-11-1999	
US 6104808	Α	15-08-2000	NONE			
US 6473625	B1	29-10-2002	GB AU WO EP JP	2333004 A 2161199 A 9935880 A1 1044582 A1 2002501357 T	07-07-1999 26-07-1999 15-07-1999 18-10-2000 15-01-2002	
US 4228379	Α .	14-10-1980	DE GB IT JP JP JP	2934663 A1 2029160 A ,B 1125948 B 1494280 C 55063197 A 63040400 B	13-03-1980 12-03-1980 14-05-1986 20-04-1989 13-05-1980 10-08-1988	